

INTERNATIONAL SEARCH REPORT

Int'l Application No

EP 03/03497

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K39/39 A61P31/00

10/509917

Rec'd PCT/PTO 04 OCT 2004

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 59610 A (GESELLSCHAFT FÜR BIOTECHNOLOGISCHE FORSCHUNG) 25 November 1999 (1999-11-25) the whole document	1-11
A	WO 98 27110 A (GESELLSCHAFT FÜR BIOTECHNOLOGISCHE FORSCHUNG) 25 June 1998 (1998-06-25) cited in the application the whole document	1-11

-/-

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

17 September 2003

Date of mailing of the international search report

29/09/2003

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INTERNATIONAL SEARCH REPORT

Int. Application No

PCT/ 03/03497

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SHIBATA K ET AL: "The N-terminal lipopeptide of a 44-kDa membrane-bound lipoprotein of Mycoplasma salivarium is responsible for the expression of intercellular adhesion molecule-1 on the cell surface of normal human gingival fibroblasts." JOURNAL OF IMMUNOLOGY (BALTIMORE, MD.: 1950) UNITED STATES 1 DEC 2000, vol. 165, no. 11, 1 December 2000 (2000-12-01), pages 6538-6544, XP002227431 ISSN: 0022-1767 the whole document	1-11
A	WO 93 22343 A (THE ROCKFELLER UNIVERSITY) 11 November 1993 (1993-11-11) the whole document	1-11
A	MUEHLRADT P F ET AL: "IDENTIFICATION OF S-(2,3-DIHYDROXYPROPYL)CYSTEIN IN A MACROPHAGE-ACTIVATING LIPOPEPTIDE FROM MYCOPLASMA FERMENTANS" BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, PA, US, vol. 35, no. 24, 18 June 1996 (1996-06-18), pages 7781-7786, XP002070516 ISSN: 0006-2960 the whole document	1-11
X	MÜHLRADT P F ET AL: "Structure and specific activity of macrophage-stimulating lipopeptides from Mycoplasma hyorhinae." INFECTION AND IMMUNITY. OCT 1998, vol. 66, no. 10, October 1998 (1998-10), pages 4804-4810, XP002254742 ISSN: 0019-9567 the whole document	1-11
P,X	RHARBAOUI FAIZA ET AL: "The Mycoplasma-derived lipopeptide MALP-2 is a potent mucosal adjuvant." EUROPEAN JOURNAL OF IMMUNOLOGY. OCT 2002, vol. 32, no. 10, October 2002 (2002-10), pages 2857-2865, XP002254743 ISSN: 0014-2980 the whole document	1-11

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PCT/EP 03/03497

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although Claims 1-11 relate to a method for treatment of the human or animal body, the search was carried out on the basis of the alleged effects of the compound or composition.

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intr. Application No

PCT/LP 03/03497

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9959610	A	25-11-1999	DE 19822820 A1	25-11-1999
			AT 245433 T	15-08-2003
			AU 756107 B2	02-01-2003
			AU 4264399 A	06-12-1999
			CA 2328418 A1	25-11-1999
			DE 59906362 D1	28-08-2003
			WO 9959610 A2	25-11-1999
			EP 1077717 A2	28-02-2001
			JP 2002515446 T	28-05-2002
WO 9827110	A	25-06-1998	DE 19652586 A1	18-06-1998
			WO 9827110 A2	25-06-1998
			EP 0946590 A2	06-10-1999
			US 6573242 B1	03-06-2003
WO 9322343	A	11-11-1993	WO 9322343 A1	11-11-1993
			US 5580563 A	03-12-1996